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Chrysafis, C. Ortega, A.

Hewlett-Packard Labs., Palo Alto, CA;

*This paper appears in: Image Processing, 1999. ICIP 99. Proceedings. 1 International Conference on*

Meeting Date: 10/24/1999 -10/28/1999

Publication Date: 1999

Location: Kobe , Japan

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Volume: 3, References Cited: 11

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### Abstract:

As wavelet-based image coding is set to become more widely used (e.g. with completion of the JPEG2000 standard), memory efficiency for wavelet-based coding is becoming an increasingly important issue. In this paper we present complete system to perform low memory wavelet image coding. Our approach "line-based" in that the images are read line by line and only the minimum number of lines is kept in memory. The line-based transform is combined with low memory entropy coder that does not require any global image information system achieves a large (two orders of magnitude) reduction in memory requirements compared to other available coders, with limited performance loss (e.g., less than 0.5 dB)

### Index Terms:

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